PTO-1390 (Rev. 07-2005)
Approved for use through 03/31/2007. OMB 0651-0021
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TRANSMITTAL LETTER TO	THE UNITED STATES	ATTORNEY'S DOCKET NUMBER 449122086300				
DESIGNATED/ELECTED	OFFICE (DO/EO/US)	U.S. APPLICATION NO. (if known, see 37 CFR 1.5)				
CONCERNING A SUBMISSION INTERNATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	10/565,674 PRIORITY DATE CLAIMED				
PCT/EP2004/051590	23 July 2004	25 July 2003				
TITLE OF INVENTION RAY TRACING IN DISCONTINUOUS MULTIMODE CHANNEL WAVEGUIDES						
APPLICANT(S) FOR DO/EO/US						
Thomas BIERFHOFF Applicant herewith submits to the United Sta	ites Designated/Elected Office (DO/EO	/US) the following items and other information:				
1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.						
2. X This is a SECOND or SUBSEQUE	NT submission of items concerning a s	ubmission under 35 U.S.C. 371.				
3. x This is an express request to begin include items (5), (6), (9) and (21) i	n national examination procedures (35 tindicated below.	U.S.C. 371(f)). The submission must				
4. The US has been elected (Article 3	31).					
5. A copy of the International Applicat	tion as filed (35 U.S.C. 371 (c)(2))					
a. is attached hereto (required on	ly if not communicated by the Internation	onal Bureau).				
b. has been communicated by the	e International Bureau.					
c. is not required, as the applicati	on was filed in the United States Recei	ving Office (RO/US).				
6. An English language translation of	the International Application as filed (3	5 U.S.C. 371(c)(2)).				
a. is attached hereto.						
b. has been previously submitted	under 35 U.S.C. 154(d)(4).					
7. Amendments to the claims of the li	nternational Application under PCT Arti	cle 19 (35 U.S.C. 371(c)(3))				
a. are attached hereto (required o	only if not communicated by the Interna	tional Bureau).				
b. have been communicated by the	he International Bureau.					
c. have not been made; however, the time limit for making such amendments has NOT expired.						
d. have not been made and will n						
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. x An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).						
Items 11 to 20 below concern docu	ment(s) or information included:					
11. x An Information Disclosure Stater	ment under 37 CFR 1.97 and 1.98.					
12. x An assignment document for reco	ording. A separate cover sheet in compl	liance with 37 CFR 3.28 and 3.31 is included.				
13. A preliminary amendment.						
An Application Data Sheet under 37 CFR 1.76.						
15. A substitute specification.						
16. A power of attorney and/or change of address letter.						
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.						
18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).						
19. A second copy of the English lan	guage translation of the international	application under 35 U.S.C. 154(d)(4).				
1						

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U.S. A	PPLICATION	1 NO. (if known, see 10/565,674		INTERNATIONAL APPLIC	ation no. 004/051590	ATTORNEY'S DOCK	ET NUMBER 22086300
20. ×	Other i	tems or inform	and Po	f the May 17, 2006 N wer of Attorney (3 pa and Return Receipt	otification of Missing F ges), Assignment and Postcard	Requirements (2 p I Recordation For	ages), Declaration n Cover Sheet (3
	The fall	owing foos ba	ve been submitte			CALCULATIONS	PTO USEONLY
21.				))	\$300		0
pre	22. Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report					\$	0
Searc	J written opin IPEA/US i h fee (37 C Internation ational Sea previously	indicates all clain FR 1.445(a)(2)) nal Searching Au arch Report prepa y communicated	S or the international ns satisfy provisions has been paid on the thorityared by an ISA other to the US by the IB	preliminary examination of PCT Article 33(1)-(4) e international application than the US and provide	to the USPTO as an	\$	0
All oth	er situation	TOTAL OF 21,				\$ 0.0	0
	Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total	Sheets	Extra Sheets	thereof (round	additional 50 or fraction up to a whole number)	RATE	_  \$	
	- 100 = 	/50			x \$250.00	•	
Surch after t	arge of \$1 he date of	30 for furnishing commencement	any of the search fee of the national stage	e, examination fee, or the (37 CFR 1.492(h)).	oath or declaration	\$ 130.0	00
	CLAIM		UMBER FILED	NUMBER EXTRA	RATE		
	Total clai		- 20 = - 3 =	- 20 =			
	dependent				+		
WOL	MULTIPLE DEPENDENT CLAIM(S) (if applicable) +  TOTAL OF ABOVE CALCULATIONS =					= \$ 130.0	00
	Applicar	nt claims small e	ntity status. See 37 (	CFR 1.27. Fees above a	re reduced by 1/2.		
	Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  SUBTOTAL =				.= \$ 130.0	00	
Proce	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).			\$			
	TOTAL NATIONAL FEE =				= \$	0.00	
Fee f	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$	\$ 40.00		
	TOTAL FEES ENCLOSED =					) = \$	170.00
						Amount to be refunded:	\$
						Amount to be charged	\$
	0000008 0.00 DA		0565674				

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a. A check in the amount of \$ to cover	er the above fees is enclosed.					
b. Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed.	in the amount of \$170.00 to cover the above fees.					
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 03-1952 . A duplicate copy of this sheet is enclosed.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has filed an granted to restore the International Application to pen	not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be					
mod an grantou to restore the international Application to pent						
SEND ALL CORRESPONDENCE TO:	I will put					
	SIGNATURE					
	Kevin R. Spivak					
	NAME					
CUSTOMER NUMBER: 25227						
	43,148 REGISTRATION NUMBER					

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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POR STATES
Alexandria, Virginia 22313-1450

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/565,674 🗸

Thomas Bierhoff

449122086300 V

INTERNATIONAL APPLICATION NO. PCT/EP04/51590

I.A. FILING DATE

PRIORITY DATE

07/23/2004

07/25/2003

**CONFIRMATION NO. 5537 371 FORMALITIES LETTER** 

OC000000018805529\*

25227 MORRISON & FOERSTER LLP 1650 TYSONS BOULEVARD **SUITE 300** MCLEAN, VA 22102

Date Mailed: 05/17/2006

## NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 01/24/2006
- English Translation of the IA filed on 01/24/2006
- Copy of the International Search Report filed on 01/24/2006
- Preliminary Amendments filed on 01/24/2006
- U.S. Basic National Fees filed on 01/24/2006
- Substitute Specification filed on 01/24/2006
- Priority Documents filed on 01/24/2006
- Specification filed on 01/24/2006
- Claims filed on 01/24/2006
- Abstracts filed on 01/24/2006
- Drawings filed on 01/24/2006

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

\$130 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

**VONDA M WALLACE** 

Telephone: (703) 308-9140 EXT 225

## PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY, DOCKET NO.				
10/565,674	PCT/EP04/51590	449122086300				

FORM PCT/DO/EO/905 (371 Formalities Notice)